



## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/NZ99/00214 <b>(22) International Filing Date:</b> 10 December 1999 (10.12.99) <b>(30) Priority Data:</b> 333992 29 January 1999 (29.01.99) NZ <b>(71) Applicant (for all designated States except US):</b> NEW ZEALAND INSTITUTE FOR CROP & FOOD RESEARCH LIMITED [NZ/NZ]; Gerald Street, Lincoln, Christchurch (NZ). <b>(72) Inventors; and</b> <b>(75) Inventors/Applicants (for US only):</b> LISTER, Carolyn, Elizabeth [NZ/NZ]; 58 Charles Upham Avenue, Hillmorton, Christchurch (NZ). EADY, Colin, Charles [NZ/NZ]; 69 Ellesmere Junction Road, Lincoln, Christchurch (NZ). <b>(74) Agents:</b> HAWKINS, Michael, Howard et al.; Baldwin Shelston Waters, NCR Building, 342 Lambton Quay, Wellington (NZ).		<b>(81) Designated States:</b> AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>With international search report.</i>
<b>(54) Title:</b> TRANSFORMATION AND REGENERATION OF <i>ALLIUM</i> PLANTS  <b>(57) Abstract</b>  The invention relates to a novel transformation method for plants of the genus <i>Allium</i> , in particular to onion plants. Plants transformed by the method are also provided. The method preferably involves an <i>Agrobacterium tumefaciens</i> -mediated transformation, more preferably involving immature embryos as the explant source and employing a binary vector.		